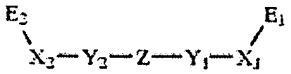
Claims

Listing of Claims:

1. (Currently Amended) An organophotoreceptor comprising an electrically conductive substrate and a photoconductive element on the electrically conductive substrate, the photoconductive element comprising:

(a) a charge transport material having the formula



where Y_1 and Y_2 comprise, each independently, a carbazolyl group;

X_1 and X_2, each independently, have the formula $-(CH2)_m-$, where m is an integer between 0 and 20, inclusive, and one or more of the methylene groups is optionally replaced by O, S, C=[[0]] O, [[0]] O = S=[[0]] O, a heterocyclic group, an aromatic group, urethane, urea, an ester group, an amide group, an NR_3 group, or a CR_5R_6 group where R_3, R_5, and R_6 are, independently hydroxyl, thiol, carboxyl, an amino group, an alkyl group, an alkenyl group, a ~~heteroc~~ heterocyclic group, or an aromatic group, wherein X_1 is bonded to the nitrogen of the carbazolyl group in Y_1, and X_2 is bonded to the nitrogen of the carbazolyl group in Y_2;

E_1 and E_2 comprise, each independently, an epoxy group; and

Z is a linking group comprising a bond, a-$(CR_5=CR_6-)_n$- group, a $-CR_7=N-$ group, or an aromatic group, where R_5, R_6, and R_7 are, each independently, H, an alkyl group, an alkenyl

group, a heterocyclic group, or an aromatic group, and n is an integer between 1 and 10, inclusive; and

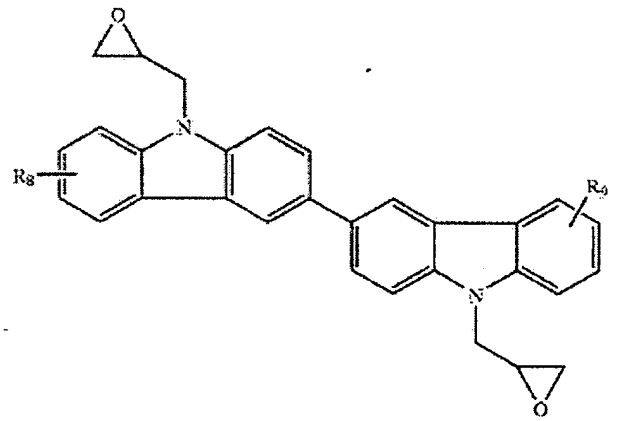
(b) a charge generating compound.

2. (Currently Amended) ~~An~~ The organophotoreceptor according to claim 1, wherein Z is a bond.

3. (Currently Amended) ~~An~~ The organophotoreceptor according to claim 1, wherein X_1 and X_2 are, each independently, a methylene group.

4. (Currently Amended) ~~An~~ The organophotoreceptor according to claim 1, wherein E_1 and E_2 are, each independently, an oxiranyl ring.

5. (Currently Amended) ~~An~~ The organophotoreceptor according to claim 1, wherein the charge transport material is selected from the group consisting of the following formula:



where R_8 and R_9 are, each independently, H, a halogen, an alkoxyl group, or an alkyl group.

6. (Currently Amended) ~~An~~ The organophotoreceptor according to claim 1, wherein the photoconductive element further comprises a second charge transport material.

7. (Currently Amended) ~~An~~ The organophotoreceptor according to claim 6, wherein the second charge transport material comprises an electron transport compound.

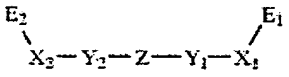
8. (Currently Amended) ~~An~~ The organophotoreceptor according to claim 1, wherein the photoconductive element further comprises a binder.

9. (Currently Amended) An electrophotographic imaging apparatus comprising:

(a) a light imaging component; and

(b) an organophotoreceptor oriented to receive light from the light imaging component, the organophotoreceptor comprising an electrically conductive substrate and a photoconductive element on the electrically conductive substrate, the photoconductive element comprising:

(i) a charge transport material having the formula



where Y_1 and Y_2 comprise, each independently, a carbazolyl group;

X_1 and X_2, each independently, have the formula $-(CH2)_m-$, where m is an integer between 0 and 20, inclusive, and one or more of the methylene groups is optionally replaced by [[0]] O, S, C=[[0]] O, [[0]] O=S=[[0]] O, a heterocyclic group, an aromatic group, urethane, urea, an ester group, an amide group, an NR_3 group, or a CR_5 R_6 group where R_3, R_5, and R_6 are, independently, H, hydroxyl, thiol, carboxyl, an amino group, an alkyl group, an alkenyl group, a

heterocyclic group, or an aromatic group, wherein X_1 is bonded to the nitrogen of the carbazolyl group in Y_1, and X_2 is bonded to the nitrogen of the carbazolyl group in Y_2;

E_1 and E_2 comprise, each independently, an epoxy group; and

Z is a linking group comprising a bond, a $-(CR_5=CR_6-)_n-$ group, a $-CR_7=N-$ group, or an aromatic group, where R_5, R_6, and R_7 are, each independently, H, an alkyl group, an alkenyl group, a heterocyclic group, or an aromatic group, and n is an integer between 1 and 10, inclusive; and

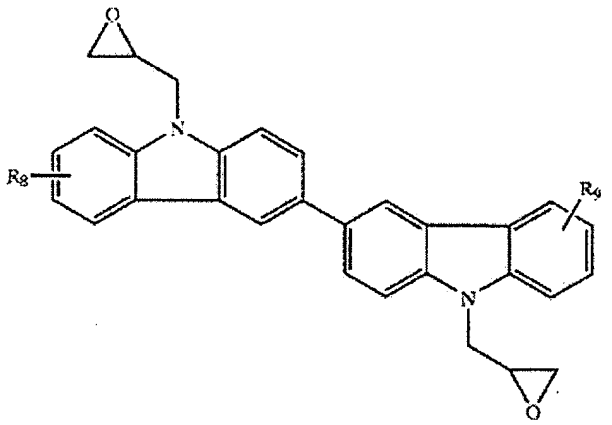
(ii) a charge generating compound.

10. (Currently Amended) ~~An~~ The electrophotographic imaging apparatus according to claim 9, wherein Z is a bond.

11. (Currently Amended) ~~An~~ The electrophotographic imaging apparatus according to claim 9, wherein X_1 and X_2 are, each independently, a methylene group.

12. (Currently Amended) ~~An~~ The electrophotographic imaging apparatus according to claim 9, wherein E_1 and E_2 are, each independently, an oxiranyl ring.

13. (Currently Amended) ~~An~~ The electrophotographic imaging apparatus according to claim 9, wherein the charge transport material is selected from the group consisting of the following formula:



where R_8 and R_9 are, each independently, H, a halogen, an alkoxyl group, or an alkyl group.

14. (Currently Amended) ~~An~~ The electrophotographic imaging apparatus according to claim 9, wherein the photoconductive element further comprises a second charge transport material.

15. (Currently Amended) ~~An~~ The electrophotographic imaging apparatus according to claim 14, wherein the second charge transport material comprises an electron transport compound.

16. (Currently Amended) ~~An~~ The electrophotographic imaging apparatus according to claim 9, further comprising a liquid toner dispenser.

17. – 41. (Cancelled)